



1 Choose the correct answer:

- 1 Online libraries may include
 a. dictionaries b. encyclopedias c. all the previous
- 2 A Creative Commons search is a resource to find materials.
 a. copyright-free b. protected c. digital
- 3 Online libraries, such as have secure and verified information.
 a. Wikipedia b. Alexandria Library
 c. social media
- 4 provide clear and accurate directions to the required places.
 a. Online libraries b. Online museums c. Online maps
- 5 allow(s) you to read more about the site before clicking on the link.
 a. Online libraries b. Meta information
 c. Egyptian Knowledge Bank
- 6 are reference sites that allow you to view museums digitally.
 a. Online libraries b. Online museums c. Online maps
- 7 are helpful for searching different media, such as images or videos online.
 a. Online libraries b. Online museums c. Online maps
- 8 Copyright notice, logo, and contact information are placed at the of the website.
 a. top b. middle c. bottom
- 9 We can use specialized search engines, such as
 a. Bing b. Google Chrome c. a & b
- 10 The meta information of the sites includes
 a. keywords b. information about the site
 c. a & b
- 11 The meta information for the sites are placed each link.
 a. above b. below c. opposite to

2 Put (✓) or (X):

- 1 Online libraries are helpful for searching different media, such as images or videos. ()
- 2 The sources of online libraries are verified and accurate. ()
- 3 Google Maps are considered accurate and are regularly updated. ()
- 4 General search engines are useful and lead you to reliable pages. ()
- 5 All online information is trusted. ()
- 6 Online libraries sometimes include dictionaries, thesauruses, and encyclopedias in the same site. ()
- 7 You can visit museums digitally through online museums. ()
- 8 One of the most famous search engines is Bing. ()
- 9 It is not necessary to use appropriate keywords in your search. ()
- 10 To display an area map, you can check online maps with the help of your teacher. ()
- 11 Specialized search engines may lead you to unreliable or unsafe pages. ()
- 12 Clicking on the links at the bottom of websites can help you decide if the site is reliable or not. ()

3 Complete the following sentences using the words between the brackets:

(Google or Bing - meta information - Online museums - Online maps - Online libraries)

- 1 _____ generally include information about each museum.
- 2 _____ such as Alexandria Library and EKB have secure and verified information.
- 3 A website's _____ tells you keywords and information about the site, and what it contains.
- 4 Specialized search engines, such as _____ are very useful to look for information online.
- 5 _____ provide clear and accurate directions to the required places.

Exercises

Lesson 8

1 Choose the correct answer:

- 1 _____ communication needs instant response.
 a. Synchronous b. Asynchronous c. Both of them
- 2 _____ is an example of synchronous communication.
 a. Email b. Live TV show c. Recorded video
- 3 _____ communication is/are type(s) of digital communication.
 a. Synchronous b. Asynchronous c. Both of them
- 4 _____ communication doesn't (don't) occur in real time and doesn't (don't) require an instant response.
 a. Synchronous b. Asynchronous c. Both of them
- 5 Instant chat rooms are examples of _____ communication.
 a. synchronous b. asynchronous c. both of them
- 6 Email, voice messages and text messages are examples of _____ communication.
 a. synchronous b. asynchronous c. both of them
- 7 _____ communication is/are useful when you are writing about serious or complicated matters with someone you don't know well.
 a. Synchronous b. Asynchronous c. Both of them
- 8 _____ communication is/are useful when you are writing about everyday matter to family and you need an immediate or quick response.
 a. Synchronous b. Asynchronous c. Both of them
- 9 _____ communication is/are useful when you are writing about an issue with someone in authority and you don't need an answer right away.
 a. Synchronous b. Asynchronous c. Both of them
- 10 _____ is/are real-time communication between people.
 a. Synchronous b. Asynchronous c. Both of them

2 Put (✓) or (X):

- 1 Synchronous communication does not occur in real time communication. ()
- 2 Asynchronous communication is real-time communication. ()
- 3 Always be sure your message is clear when communicating online. ()
- 4 It's easy to understand the other people when communicating online. ()
- 5 Synchronous communication is useful any time. ()
- 6 Synchronous communication is useful when you need an immediate response. ()
- 7 Always be sure your message is clear when communicating online. ()
- 8 There is just one type of communication. ()
- 9 Video chats and live TV shows are examples of asynchronous communication. ()
- 10 Asynchronous communication does not require an instant response. ()
- 11 Recorded videos are examples of asynchronous communication. ()

3 Complete the following sentences using the words between the brackets:

(Email- Synchronous communication - Live TV show - Asynchronous communication - helpful)

- 1 _____ is an example of asynchronous communication.
- 2 Part of being a good digital citizen is to be _____.
- 3 _____ is a real-time communication and needs immediate response.
- 4 _____ does not occur in real time and does not require an instant response.
- 5 _____ is an example of synchronous communication.



1 Choose the correct answer:

- 1 Dr. Diego Ponce de Leon holds a PhD from the University of _____.
 a. Chicago b. California c. New York
- 2 _____ is one of the renewable energy sources.
 a. Natural gas b. Wind c. Coal
- 3 Dr. Diego Ponce de Leon develops the use of technology to build data systems related to _____.
 a. renewable energy b. fossil fuels c. debris
- 4 Fossil fuels are found in nature in the form of _____.
 a. coal b. natural gas and oil c. a&b
- 5 Recently, _____ are being used instead of power generated from fossil fuels.
 a. wind and solar power b. natural gas and oil c. a&b
- 6 Dr. Diego Ponce de Leon's work helps devices work efficiently by connecting the refrigerators and air conditioners together with _____ and programming a computer to control them.
 a. Wi-Fi b. thermostat c. bluetooth
- 7 Dr. Ponce de Leon used the _____ to monitor how much energy do the refrigerators and air conditioners used throughout the day.
 a. sensors b. thermostat c. mobile
- 8 Thermostat is used in refrigerators to measure the _____.
 a. temperature b. energy c. humidity
- 9 Dr. Diego Ponce de Leon used _____ to monitor the appliances
 a. sensors b. thermostat c. Wi-Fi
- 10 The electricity used by air conditioners in the summer is _____ in the winter.
 a. more than b. less than c. the same

- 11 In Egypt, data and information management system was built to improve the _____ system.
- a. investment b. irrigation c. industry

2 Put (✓) or (X):

- 1 Dr. Diego used technology to reduce energy waste. ()
- 2 Thermostat is a device that communicates information back to a computer. ()
- 3 The electricity used in a certain town changes throughout the day. ()
- 4 The electricity used by air conditioners in the summer is less than in the winter. ()
- 5 There is just one way to produce energy. ()
- 6 Dr. Ponce de Leon was able to balance the power grid by moving and storing the electricity. ()
- 7 We can store and move electricity from one place to another. ()
- 8 We can use technology to solve many problems. ()
- 9 Egypt uses data and information management systems. ()
- 10 The use of technology to collect data is unimportant in future planning. ()

3 Choose from column (A) what suits it in column (B):

Column (A)

- 1 Sun and wind
- 2 Coal and oil
- 3 Sensor
- 4 Thermostat
- 5 Crucial

Column (B)

- a. Using technology to collect data in planning.
- b. Measures temperature
- c. Fossil fuels.
- d. Communicates information back to a computer.
- e. Renewable energy sources.

1

2

3

4

5



1 Choose the correct answer:

- 1 To solve the problem of screen freezes, you can use the _____ buttons.
 a. Alt, Tab, and Del b. Alt, Ctrl, and Del c. Alt, Ctrl, and Tab
- 2 If you don't use official stores, only download software from _____ sources.
 a. reliable b. unreliable c. harmful
- 3 If you downloaded a software program, you can find the program in _____ folder.
 a. Installed b. Favourites c. Downloads
- 4 To turn your device off, press and hold down the _____ button.
 a. power b. Esc c. enter
- 5 Computers use _____ numbers system to store data more efficiently.
 a. binary b. decimal c. octal
- 6 Computers understand _____ signals
 a. optical b. electrical c. a&b
- 7 The binary system uses the values _____ to express the binary numbers system.
 a. 0 b. 1 c. a&b
- 8 In computer binary system, number (1) means _____.
 a. on b. off c. pass

2 Put (✓) or (X):

- 1 It is recommended to update software programs on your computer. ()
- 2 You must install updates for programs manually. ()
- 3 Software programs, such as Microsoft Office and Google. ()

- 4 "Screen freezes" is one of the common problems when using PC. ()
- 5 Binary system uses the values (1&2). ()
- 6 Some programs can be updated automatically. ()
- 7 All software updates require a restart. ()
- 8 All online sources are safe to download programs. ()
- 9 Users can face various problems when using computers. ()

3 Complete the following sentences using the words between the brackets:

(30 second - binary system - Updates - power - Office 365)

- 1 _____ is an example of software programs that can be downloaded.
- 2 To turn your cell phone off, press the _____ button for _____.
- 3 Computers use _____ to store data more efficiently.
- 4 _____ help programs to run more efficiently

4 Rearrange the following settings to update a software program on your PC:

- 1 Windows update ()
- 2 Settings ()
- 3 Start button ()
- 4 Update and Security ()



1 Choose the correct answer:

- 1 Computers are simple and efficient like a
 a. light switch b. light lamp c. TV
- 2 Computers only understand information represented by
 a. 1s b. 0s c. a&b
- 3 The binary numbers system is used to store, send, and receive data on
 a. computers b. calculators c. a&b
- 4 Humans use the system to communicate using numbers.
 a. binary b. decimal c. octal
- 5 The system is called the base two system.
 a. binary b. decimal c. octal
- 6 The system is called the base ten system.
 a. binary b. decimal c. octal
- 7 In the decimal system, we use number symbols to represent all possible numbers.
 a. one b. two c. ten
- 8 The binary system is used to send, receive, and information on digital electronic devices.
 a. process b. delete c. store

2 Put (✓) or (X):

- 1 Computers understand information represented by on/off. ()
- 2 The number 7 in the binary system is equivalent to (111) in the decimal system. ()

- 3 The binary numbers system is used to store data only on computers. ()
- 4 The decimal system is called base ten system. ()
- 5 The binary numbers system has just two numbers (1&2). ()
- 6 The binary numbers system is called base ten system. ()
- 7 The decimal system is used in cell phones to store data. ()

3 Complete the following table:

| Decimal | Binary |
|---------|--------|
| | 0001 |
| 9 | |
| | 0101 |
| 8 | |
| | 0110 |
| 7 | |
| 2 | |
| | 0100 |



1 Choose the correct answer:

- Dr. Ponce de Leon uses technology to collect data to for the future.
a. plan **b.** manage teams **c.** save energy
- Microsoft Word can be edited by numerous users in different locations, if there is an available
a. keyboard **b.** printer
c. internet connection
- You can use to save the images you create and insert them into your document.
a. Microsoft Word **b.** Paint **c.** email
- You can use to send your work to your colleagues.
a. Microsoft Word **b.** Paint **c.** email
- One of the most important issues in achieving your research project is
a. data **b.** texts & pictures **c.** a&b

2 Put (✓) or (X):

- 1 Dr. Ponce de Leon uses technology to collect data to plan for the future. ()
- 2 Microsoft Word is one of Microsoft Office 365 programs. ()
- 3 It is not available to edit a Word document by different users in different places. ()
- 4 It is not necessary to plan to your project. ()
- 5 One of the tools you may need for a group project is email. ()
- 6 You can't attach a document to your email. ()

- 7 Assigning roles to the group members is crucial when starting a project. ()
- 8 Identifying the personal characteristics of team members can benefit the group. ()
- 9 You have to discuss the tools needed to complete each section of the project after finishing the project. ()
- 10 Be sure to answer any questions the group members may have. ()
- 11 You can't insert an image into a Word document. ()

3 Complete the following sentences using the words between the brackets:

(Paint - roles - Email - MS Word- technology)

- 1 _____ is one of the programs may be used in preparing the project.
- 2 Before starting a project, you have to assign _____ to group members.
- 3 _____ is used to send documents to project members.
- 4 To edit and save images, you can use _____ program.
- 5 You can use _____ to collect data to plan for the future.



Al-Faez

Questions



★ First: Complete from words between brackets:

(Alexandria - Creative Commons - encyclopedias -
Online libraries - Google Maps)

- 1, are helpful for searching media (images or videos).
- 2 Online libraries such as the Library and the EKB have secure, verified information.
- 3 are considered accurate and are regularly updated.
- 4 Online libraries include dictionaries, thesauruses, and, but these are on separate sites.
- 5 A search is a resource to find copyright-free information. But not all sources posted are verified or accurate.

★ Second: Put (✓) or (×):

- 1 If you need to display a street, or an area map, always check online maps. ()
- 2 Specialized search engines such as Google or Bing are very useful. ()
- 3 Websites do not include meta information. ()
- 4 Online museums can be reference sites that allow you to view museums digitally. ()
- 5 The site's meta information does not allow you to read more about the site before clicking on the link. ()



Al-Faez

Questions ?

★ **First: Complete from words between brackets:**

(recorded videos - real time - message - Respect
- Synchronous communication)

- 1 Asynchronous communication tools include email, voice and text messages and
- 2 is real-time communication between people.
- 3 Whenever you're communicating, you should be polite. the recipient's feelings, even if you're upset about something.
- 4 If you're sending a to a close friend, give him time to respond before sending another message, he may be busy.
- 5 Asynchronous communication is communication that does not occur in and does not require an instant response.

★ **Second: Put (✓) or (×):**

- 1 Part of being a good digital citizen is helping others when you're communicating. ()
- 2 Asynchronous communication using digital tools such as video chats, live television shows, and instant chat rooms. ()
- 3 If someone needs help communicating online, don't share what you know. ()
- 4 Synchronous communication is useful when you are writing about serious matters with someone you don't need an answer right away. ()



Al-Faez

Questions ?

★ **First: Choose the correct answer from a, b, or c:**

- 1 allow **Dr. Diego** to collect data on power grids in order to improve the power system and reduce energy waste
 a) The power system b) Data systems c) Reduce energy waste
- 2 Nowadays, the world transitioning from using power generated by fossil fuels derived from coal, natural gas, and oil, to
 a) wind power b) solar power c) All of the above.
- 3 is a switch that measures the temperature in air conditioners and refrigerators, and programming a computer to monitor and control them.
 a) Thermostat b) natural gas c) fossil fuels
- 4 **Dr. Ponce de Leon's** used (devices which communicate information back to a computer) to monitor the appliances.
 a) sensors b) Computer c) Temperature
- 5 **Dr. Leon's** create to program the air conditioners and refrigerators in a new, energy-efficient way.
 a) devices b) software c) monitor

★ **Second: Put (✓) or (x):**

- 1 **Dr. Diego Ponce de Leon** received his Ph.D. from Cairo University. ()
- 2 The amount of electricity used does not change throughout the day. ()



Al-Faez

Questions ?

★ **First: Choose the correct answer between the brackets:**

- ① Most software programs, like Microsoft Office versions and Google Chrome, are downloaded from the
(Internet - software - Search engine)
- ② Many programs install necessary automatically.
(updates - downloaded - software)
- ③ Some major updates require a on Windows PC.
(software - Microsoft Office - restart)
- ④ If you don't use official stores, only download software from
(Windows - Android device - reliable sources)
- ⑤ Updates help programs to run more efficiently.
(updates - programs - software)

★ **Second: Arrange the steps to install a software on a Windows PC:**

- () Find the program online.
- () Click the download button.
- () A box will pop up.
- () Follow the instructions to finish the installation process.
- () Click on the file, located in Downloads.



Remember

- Although computers really only understand information represented by 1s and 0s, something also called yes/ no, on/off.
- The binary number system is used to send, receive and store information on digital electronic devices such as computers, phones and calculators.
- Humans use the decimal system to communicate using numbers.
- The decimal system has ten unique numerals (0-9).



Al-Faez

Questions ?

★ **First: Choose the correct answer from between the brackets:**

- ① The binary number system is used to send, receive and store information on digital electronic devices such as
(computers - phones - All the previous)
- ② Humans use the decimal system to communicate using numbers.
(decimal system - Signal system - Double system)
- ③ We use symbols to represent all possible numbers.
(two number - ten number - three number)
- ④ are like a light switch, the computer design is allow only two states: on and off.
(System - Computers - numbers)
- ⑤ The decimal system has ten unique numerals
((0-1) - (0-9) - (0-10))



Al-Faez

Questions



★ **First: Put (✓) or (×):**

- 1 Before you start the project, do not discuss with your group members the things needed to complete the project. ()
- 2 Explorer **Ponce de Leon** does not understand the importance of Planning. ()
- 3 Explorer **Ponce de Leon**, uses technology to collect data to plan for the future. ()

★ **Second: Complete from words between brackets:**

- 1 Group can members work together at the same time with an internet connection with
(Microsoft Paint - Microsoft Excel - Microsoft Office 365)
- 2 With, you can save the images you create and insert them into your document.
(Microsoft Paint - Microsoft Excel - Microsoft Office 365)
- 3 You can set up a to be edited by numerous users, at different locations, by setting up online editing.
(Microsoft Word - Word document - Microsoft Office)
- 4 is used to send your work to other group members or to your teacher. (Word - Email - Paint)
- 5 Before you start the project, discuss with your group members the format that will be used to
(Internet - Email - deliver information)

Lesson 7 (How to choose online sources)

Online sources, including (reliable source - unreliable source)

Reliable sources:

- Online libraries
- Online Maps
- Online Museums
- Specialized Search Engines



المصادر عبر الانترنت منها (موثوق المصدر - غير موثوق المصدر)

المصادر الموثوقة المصدر:

- المكتبات الرقمية عبر الانترنت-
- الخرائط الرقمية
- المكتبات الالكترونية
- محركات البحث المتخصصة

Online libraries: such as the Egyptian Knowledge Bank. Alexandria Digital Library
It contains many reliable educational materials (books - articles - encyclopedias - dictionaries-clips video)

المكتبات الرقمية عبر الانترنت مثل بنك المعرفة المصري . مكتبة الاسكندرية الرقمية

تحتوى على العديد من المواد التعليمية الموثوقة (كتب - مقالات - موسوعات - قواميس - مقاطع فيديو)

digital maps:

- Provides clear and accurate directions to required places such as Google Maps
- Display streets or an area map



الخرائط الرقمية :

- توفر اتجاهات واضحة إلى الأماكن المطلوبة
- استعراض الشوارع أو خريطة منطقة

Electronic museums:

It allows viewing museums digitally and includes information about each museum

المتاحف الالكترونية : تتيح مشاهدة المتاحف عبر جهازك الرقمي وتشمل معلومات عن كل متحف

specialized search engines:

Google - Bing

Search for reliable and secure information unlike general search engines

It may lead you to unreliable, unsafe pages

It is preferable to use keywords in the search

محركات البحث المتخصصة:

google - bing

البحث عن المعلومات الموثوقة والأمانة على عكس محركات البحث العامة

يفضل استخدام الكلمات المفتاحية في البحث

A website's Meta information

Website include meta information such as keywords, information about the site

المعلومات الوصفية للموقع

تتضمن المواقع الإلكترونية معلومات وصفية، مثل :

الكلمات المفتاحية - معلومات حول الموقع وما يحويه.

When you use a search engine and get a set of results,

The information that below each link is the meta information of the site.

فعندما تستخدم محرك بحثي وتحصل على مجموعة من النتائج، فإن المعلومات الواردة تحت كل رابط هي المعلومات

الوصفية للموقع.

This will allow to read more about the site before clicking on the link.

وهذا سيعطيك فرصة لقراءة المزيد عن الموقع قبل النقر على الرابط.

At the bottom of the websites there is usually information such as :

A copyright notice – logo – contact information and social media icons

في الجزء السفلي من المواقع الإلكترونية يوجد :

- بيانات تظهر عبارة حقوق النشر - شعار الموقع - معلومات للاتصال بالموقع - أيقونات وسائل التواصل الاجتماعي.

Clicking on these links can help you decide if the site is reliable

يمكن أن يساعدك النقر على هذه الروابط في تحديد ما إذا كان الموقع موثوقا أم لا.

exercises

Question 1: Put a (true) or (false):

specialized search engines lead to unreliable and unsafe sources.

Google Maps Display streets or an area map.

all the information on the Internet Reliable

websites that Contains on a lot of errors spelling And lies considered as reliable sites

Digital Maps via Internet contain a lot of books and articles and encyclopedias.

You can Visit Museums virtually via Internet

Alexandria Digital Library that contain safe and reliable information.

Question 2: Choose the correct answer:

.....used to watch Museums on your device digital.

a-Museums

B- Digital Maps

c- Digital Libraries

specialized search engines.....

a-YouTube

B-Facebook

c-Google and Bing

This will allow to read more about the site before clicking on the link.

a- Site names

b- A website's Meta information

c- Website addresses

..... To search for different educational materials online.

a- Electronic museum

b- Digital maps

c-Digital libraries

Examples of library sites that contain safe and reliable information.....

a- Alexandria Library

B-Egyptian Knowledge Bank

c-A,B together

Provides clear and accurate directions to required places such as

a-YouTube

B-Facebook

c-Google Maps

- Display streets or an area map use.....

a- Excel

B- word

c-digital maps

Question 3: Complete with the appropriate answer:

(Google Maps – Google -Digital Libraries - Electronic Museums - Digital Maps)

..... Provides clear and accurate directions to required places

Is considered.....One of the most important specialized search engines on the Internet.

.....It is one of the most famous sites that provide digital maps service.

used.....To search for different educational materials online .

.....It allows viewing museums digitally and includes information about each museum

Lesson 8 (Synchronous and Asynchronous Communication)

Synchronous communication:

Is a real time communication between people (at the same time)

الاتصال المتزامن : هو التواصل خلال الوقت الفعلي بين الأشخاص (أى فى نفس الوقت)

It requires an instant response

وتتطلب استجابته فورية

- video chats
- Live TV programmes
- Instant chat rooms

مثل - محادثات الفيديو

- البرامج التلفزيونية المباشرة

- غرف الدردشة الفورية

Asynchronous communication: It is communication that does not occur in real time and does not require an instant response

Like - email

- Voice and text messages and recorded video clips

الاتصال غير المتزامن : هو التواصل الذي لا يحدث خلال الوقت الفعلي ولا يتطلب استجابته فوريه

مثل - البريد الإلكتروني

- الرسائل الصوتية والنصية ومقاطع الفيديو المسجلة

When is synchronous communication useful??

When you write about something out of everyday life to your friends or family and need a quick or immediate response

متي يكون الاتصال المتزامن مفيداً؟

عند الكتابة عن شئ طريق من الحياة اليومية إلى أصدقائك أو أسرتك وتحتاج رد سريع

When is asynchronous communication useful??

when writing about Serious thing or complicated matters to someone you don't know well

or with someone in authority, do not need an immediate response(answer right away)

متي يكون الاتصال غير المتزامن مفيداً ؟

عند الكتابة عن شئ جاد أو مسائل معقدة إلى شخص لا تعرفه جيداً

أو مع شخص مسئول ولا تحتاج إلى رد فوري

Be polite:

Even if you are upset about something what Do not use language that could be upsetting to the recipient.

Respect the feelings of the recipient.

كن مهذباً :

فلا تستخدم أسلوباً قد يزعج المتلقي. راعي أهمية أسلوب الكتابة والكلام. حتى إذا كنت مستاء حيال أمر ما

احترم مشاعر المتلقي.

Be patient

if your 're sending a message to a close friend, they need time to respond, or may be busy.

Give the recipient some time to respond before sending another message.

كن صبوراً

تذكر أنه حتى ولو وجهت رسالتك إلى صديق مقرب، فهو يحتاج إلى وقت للرد، أو قد يكون هذا الشخص مشغولاً.

امنح المتلقي بعض الوقت للإجابة قبل إرسال رسالة أخرى .

Be helpful:

Helping others is a part of being a good digital citizen.

Use what you've learned to help the people you communicate with, whether it's a problem they're facing, or something they need help with.

If anyone needs your help communicating online, share what you know.

كن متعاوناً:

تعد مساعدة الآخرين من عناصر المواطنة الرقمية الصالحة.

استخدم ما تعلمته لمساعدة الأشخاص الذين تتواصل معهم، سواء أكان ذلك في حل مشكلة يواجهونها، أو في أمر يحتاجون إلى

المساعدة لإنجازه.

إذا احتاج أي شخص إلى مساعدتك في التواصل عبر الإنترنت، فشاركه ما تعرفه.

be clear:

it's easy for Misunderstandings to occur when communicating online

Always be sure your message is clear.

Read it back to yourself before you send it. Could the recipient misinterpret it?

If so, review it one last time before sending it.

كن واضحاً:

من السهل حدوث سوء التفاهم عند التواصل عبر الإنترنت؛ ولذلك :

احرص دائماً على أن تكون رسالتك واضحة.

اقرأها على نفسك قبل إرسالها. هل قد يسيء المتلقي تفسيرها؟

إذا كان ذلك احتمالاً فراجعها مرة أخيرة قبل إرسالها.

Question 1: Put a (true) or(false):

One of the advantages of Internet is communicate with others using digital tools.
 You must be sure your message is clear when communicating with others.
 Recorded voice messages are examples of synchronous communication.
 Synchronous communication do not need an immediate response
 We use asynchronous communication when information is urgent and necessary.
 Examples of Synchronous communication are video chats and chat rooms.

Question 2: Choose the correct answer from the brackets:

..... requires an immediate response

A - Synchronous connection B - Asynchronous connection C - Both are correct

-Help the people you communicate with and try to solve their problems.

a -Synchronous B - Internet communication ethics C - Asynchronous

When you write about something out of everyday life to your friends or family

A - synchronous B - asynchronous C –word

E-mail and are examples of synchronous.

A - recorded video clips B - instant chat rooms C - Live TV programmers

Question 3: Complete with the appropriate answer :

(Asynchronous -E-Mail - synchronous -ethics communication via Internet- Live TV programmers)

..... that be polite And be patient And cooperative when communication with others.

..... communication do not need an immediate response.

..... an example To Asynchronous communication between individuals.

..... communication that does not occur in real time

from Examples Synchronous between Individuals.....

Lesson 1 (Explorer in Action)

Dr.Diego Ponce de Leon (holds a PhD from the Energy and Resources Group, University of California Berkeley

د/ ديجو بونس دي ليون (حاصل على الدكتوراة من جامعة كاليفورنيا قسم الطاقة والموارد)

-Uses technology to build renewable energy-related data infrastructure and systems
In order to improve the power system and reduce energy waste.

- يستخدم التكنولوجيا لإنشاء بنية تحتية وأنظمة خاصة بالطاقة المتجددة من أجل تحسين الطاقة والحد من الهدر

The world made a lot of progress in transitioning away from power generated by fossil fuels derived from coal, natural gas, and oil
Instead, wind and solar power are being used

- العالم شهد تطور اكبر فى مجال توليد الطاقة بدلا من استخدام الوقود المستخرج من الفحم والغار الطبيعي
والنفط تم استخدام طاقة الرياح والطاقة الشمسية

He work helps devices work efficiently is important too .

(**thermostat**)that Measures the temperature in refrigerators and air conditioners

and programming a computer to monitor and control them through **Sensors**
Sensors a devices which communicate information back to a computer

- وعمل أيضا على زيادة كفاءه الأجهزة عن طريق ربط الثلاجات والمكيفات معا بواسطة

منظم الحرارة (**الترموستات**) الذي يقيس درجة الحرارة فى الثلاجات والمكيفات

ثم قام ببرمجة جهاز كمبيوتر لمراقبتها والتحكم بها من خلال **أجهزة الاستشعار** عن بعد

The amount of energy changes throughout the day
Air conditioners are used a lot during the summer afternoons

- كميته الطاقة تتغير على مدار اليوم

مثال مكيفات الهواء تستخدم كثيراً أثناء فترة الظهيرة في فصل الصيف

Dr.Diego was able to Balance the power grid by moving and storing the electricity from one place to another so that the amounts are more equal

قام د/ ديبيجو بموازنة شبكة الطاقة من خلال نقل الكهرباء من مكان إلى آخر وتوزيعها بالتساوي

In Egypt, a similar system is being used for a different reason .
but to increase its agricultural land and to ensure food security
and to ensure water is being used efficiently in newly reclaimed areas

مصر تتبع نفس النظام ولكن لزيادة رقعته الزراعية ولضمان تحقيق الأمن الغذائي

و توزيع استخدام المياه الاستصلاح الأراضي

Exercises

Question 1: Put a (true) or(false):

- 1- used technology to Help in Solution the problems
- 2- Dr.Diego Ponce de Leon is an archeologist
- 3- The amount of energy changes throughout the da
- 4- Dr.Diego Ponce de Leon holds a PhD University of California
- 5-There was one way to generate energy
- 6- Sensors a devices which communicate information back to a computer
- 7- thermostat that Measures the temperature in refrigerators and air conditioners

Question 2: Complete with the appropriate answer :

(solar power – Dr.Diego Ponce - thermostats- ensure food security)

- 1- from Methods generation energy Use
- 2-..... Uses technology to build renewable energy-related data infrastructure and systems
- 3- used To Measures the temperature in refrigerators and air conditioners
- 4- In Egypt, a similar system's Dr Diego is being used for a different reason

1- Dr.Diego Ponce Used technology to build.....

renewable energy

litters

find objects

2- transitioning away from power generated by.....

solar power

wind

all the previous

3-thermostat that Measuresin refrigerators and air **conditioners**

the temperature_

the heat

all the previous

4-..... a devices which communicate information back to a computer
sensors

thermostat

Debris Tracker

5- In Egypt, a similar system's Dr Diego is being used for a different reason

increase its agricultural land_

ensure food security

all the above

Lesson 2: How digital devices work

Tips for common ICT issues

1- installing software:

Programs can be downloaded through the Internet like Microsoft Office and browser google chrome



تثبيت البرامج :

- يمكن تنزيل البرامج من خلال الانترنت مثل مايكروسوفت اوفيس ومتصفح

Windows PC:

The program is downloaded from the Internet through the **download** button

Click on the file located in **Downloads**

A box will pop up, follow the instructions to finish the installation process.

تثبيت البرامج على جهاز كمبيوتر يعمل نظام ويندوز :

يتم تحميل البرنامج من الانترنت من خلال زر التنزيل

- سيظهر الملف في مجلد التنزيلات تقوم بالضغط عليه وتتبع الارشادات لاستكمال عملية التثبيت

Android devices:

Tap on the Apps icon

Go to the app store (Google play stores)

Find the application you want and click install



تثبيت البرنامج على اجهزه اندرويد :

- انقر على رمز التطبيقات

- انتقل إلى متجر التطبيقات مثل جوجل بلاي ستور

- ابحث عن التطبيق الذي تريده وانقر على زر التثبيت

2- Updating Software:

- Software should be updated regularly to help it work efficiently

- Many programs install necessary updates automatically .

٢- تحديث البرامج :

- يجب تحديث البرمجيات بانتظام لمساعدتها على العمل بكفاءة اكثر

- يتم تثبيت التحديثات في معظم البرامج تلقائيا

Windows PC:

- Some major updates require a restart
windows update ← Updates and security ← Settings ← start

على جهاز كمبيوتر يعمل بنظام ويندوز

- أحيانا تتطلب بعض التحديثات الكبيرة إعادة تشغيل الجهاز

التحديثات والأمن ← update and security ← الإعدادات ← setting ← start

Android devices:

system updates ← System

على جهاز يعمل بنظام أندرويد

تحديث النظام ← system updates النظام ← System

Troubleshoot screen freezes

Windows PC

Click on **Ctrl+Alt+Del** buttons

The task manager will appear to shut down any program that is marked as "not responding"

, turn off the device and restart it

حل مشكلة توقف الشاشة عن الاستجابة

على جهاز كمبيوتر يعمل بنظام ويندوز اضغط علي

سيظهر مدير المهام Task manager وإذا لم ينجح أطفئ الجهاز وأعد تشغيله

Android devices:

Hold the power button for 30 seconds and restart .

على أجهزة تعمل بنظام أندرويد

اضغط على زر الطاقة لمدة ٣٠ ثانية ثم أعد تشغيله

Exercises

Question 1: Put a (true) or(false):

- 1- You can installing more than software to your device
- 2- Software should not be updated regularly
- 3- No problems will face the user when use the computer
- 4 - Many programs install necessary updates automatically
- 5-we should download programs from reliable sources
- 6-when you face a problem and You can't solve it. you should ask help from your teacher
- 7- Programs can be downloaded through the Internet like Microsoft Office
- 8- to download any program from Internet through the download button

Question 2: Complete with the appropriate answer :

(Task manager - windows - google chrome –30second - Restart)

- 1- Programs can be downloaded through the Internet like
- 2-..... is considered the most famous operating system
- 3-when you click on Ctrl+Alt+Del buttonswill appear
- 4- Screen Freezes in android device Hold the power button for..... and restart .
- 5-used To face any problems during your use Computer

1-- Software should be regularly to help it work efficiently

updated

installed

deleted

2-to solve problem (Screen Freeze).....

Ctrl+Alt+Del

ESC+Alt+Del

shift+Alt+Del

3- Programs can be downloaded through the Internet like and

Google Chrome

Microsoft Office

all the above

4- Computer used System called

binary system

the base ten system

all the above

5- Binary system It is used to send and receive information on electronic digital devices by 2 numbers Just

1,0

1,1

0.0

Lesson 3 (Introduction to Binary Numbers)

- The computers Simple and efficient as an light switch allow only two states (on - off)

- إن اجهزة الكمبيوتر بسيطة وفعالة مثل المفتاح الكهربائي حين يسمح بمجالين فقط (التشغيل - الإطفاء)

. This is why the binary number system is so well for sending and receiving and storing digital information.

لهذا السبب نظام العد الثنائي فعال جدا لارسال المعلومات الرقمية وتلقيها وحفظها

-What is the binary number system??

It is used to send and receive information and store them on electronic digital devices

Such as computer, mobile phones and calculators by 2 numbers Just (0:1)

Yes / No or On or Off

يستخدم لإرسال المعلومات وتلقيها وحفظها على اجهزة رقمية الكترونية

مثل الكمبيوتر والهواتف المحمولة والحاسبات عن طريق رقمين فقط (٠:١)

نعم / لا أو تشغيل أو إطفاء

Humans use the decimal number system. Contains 10 unique numbers (0:9)

Therefore, it is called the base **ten** system.

يستخدم الناس نظام العد العشري. يحتوى على 10 اعداد منفردة (0:9)

لذلك يسمى نظام الأساسي (10)

This system is used to represent all possible numbers, meaning that once we count past the number 9

We add one of the ten unique number symbols as a digit on the left

Counting from the right

Example of the number (150) (the number to the far right is multiplied by 1 and the number in the middle is multiplied by 10

And multiply the number to the far left (100).

يستخدم هذا النظام لتمثيل كل الأرقام الممكنة وهذا يعني أن عندما تتجاوز الرقم 9

في العد نضيف أحد الأرقام العشرة المنفردة إلى اليسار بالعد من اليمين

مثال الرقم (١٥٠) يضرب الرقم إلى أقصى اليمين و ١ يضرب الرقم بالوسط بـ ١٠

ويضرب الرقم إلى أقصى اليسار (١٠٠)

As for the binary system, we add a number to the left by counting from the right, representing each position each place represents a value two times as big as the previous one and so is a quantity of 1s ,2s ,4s ,8s ,16s, etc .

أما النظام الثنائي نضيف رقماً إلى اليسار بالعد من اليمين تمثل كل موضع

قيمة مرتين أكبر من الذى يسبقه وهكذا تكون 1 ,2,4,8,16

Lesson 4 (Determination the needs for a digital project)

-Technology is used to collect data in order to plan for the future

- تستخدم التكنولوجيا لجمع البيانات بهدف التخطيط للمستقبل

Microsoft Word

Word in (Microsoft office 365)

efficient program to use when working on projects, as it allows group members to work together at the same time

It allows other users around the world to edit the document if an internet connection is available

(this can be done by setting up online editing)

" برنامج معالج الكلمات مايكروسوفت word من مايكروسوفت 365

- مفيد فى تنفيذ المشاريع فهو يسمح لأفراد المجموعة العمل معا فى نفس الوقت

يسمح لمستخدمين آخرين من حول العالم بتحرير المستند إذا توفر اتصال بالانترنت

(من خلال ميزة التعديل على الانترنت)



Microsoft Paint

You can save the image you create and then insert it into your document



برنامج الرسم Microsoft Paint

يمكنك حفظ الصورة التي تنشئها ثم ادراجها في المستند

E-mail

used to send your work to other group members or to your teacher

Write your ideas in a message or attach a document or image that you've created



البريد الالكتروني "

يستخدم لإرسال عملك إلى الأفراد الآخرين داخل المجموعة أو الى معلمك

ويمكن ارفاق صور أو مستندات بالرسالة .

Assigning roles

Group members should know their roles in the project

- Discuss the members of your group to determine the appropriate person for each part of the project
- The strengths of each group member to benefit the group .
- Elements necessary to complete the project
- Tools needed to complete each individual project
- The format used to deliver the information

توزيع الأدوار

- يجب أن يعرف أفراد المجموعة أدوارهم في المشروع
- ناقش أفراد مجموعتك لتحديد الفرد المناسب لكل جزء بالمشروع
- نقاط القوة التي يتمتع بها كل فرد والتي من الممكن الاستفادة منها
- العناصر الضرورية لإنجاز المشروع
- الأدوات اللازمة لإنجاز كل فرد من المشروع
- التنسيق الذي يستخدم لتسليم المعلومات

Exercises

Question 1: Put a (true) or (false):

Technology is used to collect data in order to plan for the future

You shouldn't discuss the members of your group to determine the appropriate person for each part of the project

Group members should know their roles in the project

WordPress can save the image you create and then insert it into your document

Word allows other users around the world to edit the document if an internet connection is available

You can't attach a document or image that you've created by E-mail

Question 2: Complete with the appropriate answer :

(word - technology – Email - Microsoft Paint – roles)

1- Group members should know their in the project

2-..... efficient program to use when working on projects

3- used..... to collect data in order to plan for the future

4-used to send your work to other group members or to your teacher

5can save the image you create and then insert it into your document

=====

1-You can Use..... when working on projects as it allows group members to work together at the same time

Word

Painter

E-mail

2.....from Digital Tools used in Preparation a project

Painter

word

all the previous

ICT - Theme 3 – lesson 7 and 8 – questions

Choose the correct answer:

- 1) Online libraries may include
a. Dictionaries b. encyclopedias c. all the previous
- 2) A creative Commons search is a resource to find materials.
a. Copyright-free b. protected c. digital
- 3) Online libraries, such as have secure and verified information.
a. Wikipedia
b. Alexandria Library c. social media
- 4) provide clear and accurate directions to the required places.
a. Online libraries b. Online museums c. Online maps
- 5) allow(s) you to read more about the site before clicking on the link.
a. Online libraries
b. Meta information c. Egyptian Knowledge Bank
- 6) are reference sites that allow you to view museums digitally.
a. Online libraries b. Online museums c. Online maps
- 7) are helpful for searching different media, such as images or videos online.
a. Online libraries b. Online museums c. Online maps

8) Copyright notice, logo, and contact information are placed at the of the website.

- a. top b. middle c. bottom

9) We can use specialized search engines, such as

- a. Bing b. Google Chrome c. a & b

10) The meta information of the sites includes

- a. Keywords
b. Information about the site c. a & b

11) The meta information for the sites are placed each link.

- a. above b. below c. opposite to

12) communication needs instant response.

- a. Synchronous b. Asynchronous c. Both of them

13) is an example of synchronous communication.

- a. Email b. Live TV show c. Recorded video

14) communication is/are type(s) of digital communication.

- a. Synchronous b. Asynchronous c. Both of them

15) communication doesn't (don't) occur in real time and doesn't (don't) require an instant response.

- a. Synchronous b. Asynchronous c. Both of them

- 16) Instant chat rooms are examples of communication.
- a. synchronous b. asynchronous c. both of them
- 17) Email, voice messages and text messages are examples of communication.
- a. synchronous b. asynchronous c. both of them
- 18) communication is/are useful when you are writing about serious or complicated matters with someone you don't know well.
- a. Synchronous b. Asynchronous c. Both of them
- 19) communication is/are useful when you are writing about everyday matter to family and you need an immediate or quick response.
- a. Synchronous b. Asynchronous c. Both of them
- 20) communication is/are useful when you are writing about an issue with someone in authority and you don't need an answer right away.
- a. Synchronous b. Asynchronous c. Both of them
- 21) is/are real-time communication between people.
- a. Synchronous b. Asynchronous c. Both of them

Put (✓) or (X):

1. Online libraries are helpful for searching different media, such as images or videos. ()
2. The sources of online libraries are verified and accurate. ()
3. Google Maps are considered accurate and are regularly updated. ()
4. General search engines are useful and lead you to reliable pages. ()
5. All online information is trusted. ()
6. Online libraries sometimes include dictionaries, thesauruses, and encyclopedias in the same site. ()
7. You can visit museums digitally through online museums. ()
8. One of the most famous search engines is Bing. ()
9. It is not necessary to use appropriate keywords in your search. ()
10. To display an area map, you can check online maps with the help of your teacher. ()
11. Specialized search engines may lead you to unreliable or unsafe pages. ()
12. Clicking on the links at the bottom of websites can help you decide if the site is reliable or not. ()
13. Synchronous communication does not occur in real time communication. ()

14. Asynchronous communication is real-time communication. ()
15. Always be sure your message is clear when communicating online. ()
16. It's easy to understand the other people when communicating online. ()
17. Synchronous communication is useful any time. ()
18. Synchronous communication is useful when you need an immediate response. ()
19. Always be sure your message is clear when communicating online. ()
20. There is just one type of communication. ()
21. Video chats and live TV shows are examples of asynchronous communication. ()
22. Asynchronous communication does not require an instant response. ()
23. Recorded videos are examples of asynchronous communication. ()

Complete the following sentences using the words between the brackets:

(Google or Bing – meta information – Online museums – Online maps – online libraries)

- 1) generally include information about each museum.
- 2) such as Alexandria Library and EKB have secure and verified information.
- 3) A website's tells you keywords and information about the site, and what it contains.
- 4) Specialized search engines, such as are very useful to look for information online.
- 5) provide clear and accurate directions to the required places.

**(Email - Synchronous communication – Live TV show –
Asynchronous communication – helpful)**

1. is an example of asynchronous communication.
2. Part of being a good digital citizen is to be
3. is a real-time communication and needs immediate response.
4. does not occur in real time and does not require an instant response.
5. is an example of synchronous communication.

ICT - Theme 3 – lesson 7 and 8 – answers

Choose the correct answer:

- 1) Online libraries may include
a. Dictionaries b. encyclopedias **c. all the previous**
- 2) A creative Commons search is a resource to find materials.
a. Copyright-free b. protected c. digital
- 3) Online libraries, such as have secure and verified information.
a. Wikipedia
b. Alexandria Library c. social media
- 4) provide clear and accurate directions to the required places.
a. Online libraries b. Online museums **c. Online maps**
- 5) allow(s) you to read more about the site before clicking on the link.
a. Online libraries
b. Meta information c. Egyptian Knowledge Bank
- 6)are reference sites that allow you to view museums digitally.
a. Online libraries **b. Online museums** c. Online maps
- 7) are helpful for searching different media, such as images or videos online.
a. Online libraries b. Online museums c. Online maps

8) Copyright notice, logo, and contact information are placed at the of the website.

- a. top b. middle c. bottom

9) We can use specialized search engines, such as

- a. Bing b. Google Chrome c. a & b

10) The meta information of the sites includes

- a. Keywords
b. Information about the site c. a & b

11) The meta information for the sites are placed each link.

- a. above b. below c. opposite to

12) communication needs instant response.

- a. Synchronous b. Asynchronous c. Both of them

13) is an example of synchronous communication.

- a. Email b. Live TV show c. Recorded video

14) communication is/are type(s) of digital communication.

- a. Synchronous b. Asynchronous c. Both of them

15) communication doesn't (don't) occur in real time and doesn't (don't) require an instant response.

- a. Synchronous b. Asynchronous c. Both of them

- 16) Instant chat rooms are examples of communication.
- ☒ a. synchronous b. asynchronous c. both of them
- 17) Email, voice messages and text messages are examples of communication.
- a. synchronous ☒ b. asynchronous c. both of them
- 18) communication is/are useful when you are writing about serious or complicated matters with someone you don't know well.
- a. Synchronous ☒ b. Asynchronous c. Both of them
- 19) communication is/are useful when you are writing about everyday matter to family and you need an immediate or quick response.
- ☒ a. Synchronous b. Asynchronous c. Both of them
- 20) communication is/are useful when you are writing about an issue with someone in authority and you don't need an answer right away.
- a. Synchronous ☒ b. Asynchronous c. Both of them
- 21) is/are real-time communication between people.
- ☒ a. Synchronous b. Asynchronous c. Both of them

Put (✓) or (X):

1. Online libraries are helpful for searching different media, such as images or videos. (✓)
2. The sources of online libraries are verified and accurate. (X)
3. Google Maps are considered accurate and are regularly updated. (✓)
4. General search engines are useful and lead you to reliable pages. (X)
5. All online information is trusted. (X)
6. Online libraries sometimes include dictionaries, thesauruses, and encyclopedias in the same site. (X)
7. You can visit museums digitally through online museums. (✓)
8. One of the most famous search engines is Bing. (✓)
9. It is not necessary to use appropriate keywords in your search. (X)
10. To display an area map, you can check online maps with the help of your teacher. (✓)
11. Specialized search engines may lead you to unreliable or unsafe pages. (X)
12. Clicking on the links at the bottom of websites can help you decide if the site is reliable or not. (✓)
13. Synchronous communication does not occur in real time communication. (X)
14. Asynchronous communication is real-time communication. (X)
15. Always be sure your message is clear when communicating online. (✓)
16. It's easy to understand the other people when communicating online. (X)
17. Synchronous communication is useful any time. (X)

18. Synchronous communication is useful when you need an immediate response. (✓)
19. Always be sure your message is clear when communicating online. (✓)
20. There is just one type of communication. (X)
21. Video chats and live TV shows are examples of asynchronous communication. (X)
22. Asynchronous communication does not require an instant response. (✓)
23. Recorded videos are examples of asynchronous communication. (✓)

Complete the following sentences using the words between the brackets:

(Google or Bing – meta information – Online museums – Online maps – online libraries)

- 1) **Online museums** generally include information about each museum.
- 2) **Online libraries** such as Alexandria Library and EKB have secure and verified information.
- 3) A website's **meta information** tells you keywords and information about the site, and what it contains.
- 4) Specialized search engines, such as **Google or Bing** are very useful to look for information online.
- 5) **Online maps** provide clear and accurate directions to the required places.

(Email - Synchronous communication – Live TV show –
Asynchronous communication – helpful)

1. **Email** is an example of asynchronous communication.
2. Part of being a good digital citizen is to be **helpful**.
3. **Synchronous communication** is a real-time communication and needs immediate response.
4. **Asynchronous communication** does not occur in real time and does not require an instant response.
5. **Live TV show** is an example of synchronous communication.

Dr. Asmaa Reda

ICT – Theme 4 (lesson 1,2,4) – questions

Choose the correct answer:

- 1) Dr. Diego Ponce de Leon holds a PhD from the University of
a. Chicago b. California c. New York
- 2) is one of the renewable energy sources.
a. Natural gas b. Wind c. Coal
- 3) Dr. Diego Ponce de Leon develops the use of technology to build data systems related to
a. renewable energy b. fossil fuels c. debris
- 4) Fossil fuels are found in nature in the form of
a. Coal b. natural gas and oil c. a&b
- 5) Recently,are being used instead of power generated from fossil fuels.
a. wind and solar power
b. natural gas and oil
c. a & b
- 6) Dr. Diego Ponce de Leon's work helps devices work efficiently by connecting the refrigerators and air conditioners together with and programming a computer to control them.
a. Wi-Fi b. thermostat c. bluetooth
- 7) Dr. Ponce de Leon used the to monitor how much energy the refrigerators and air conditioners used throughout the day.
a. sensors b. thermostat c. mobile

- 8) Thermostat is used in refrigerators to measure the
a. temperature b. energy c. humidity
- 9) Dr. Diego Ponce de Leon used to monitor the appliances.
a. sensors b. thermostat c. WI-FI
- 10) The electricity used by air conditioners in the summer is in the winter.
a. more than b. less than c. the same
- 11) In Egypt, data and information management system was built to improve the system.
a. investment b. irrigation c. industry
- 12) To solve the problem of screen freezes, you can use the buttons.
a. Alt, Tab, and Del
b. Alt, Ctrl, and Del
c. Alt, Ctrl, and Tab
- 13) If you don't use official stores, only download software from sources.
a. reliable b. unreliable c. harmful
- 14) If you downloaded a software program, you can find the program in folder.
a. installed b. favourites c. downloads

- 15) To turn your device off, press and hold down the button.
a. power b. Esc c. Enter
- 16) Computers use numbers system to store data more efficiently.
a. binary b. decimal c. octal
- 17) Computers understand signals.
a. optical b. electrical c. a & b
- 18) The binary system uses the values to express the binary numbers system.
a. 0 b. 1 c. a & b
- 19) In computer binary system, number (1) means
a. on b. off c. pass
- 20) Dr. Ponce de Leon uses technology to collect data to for the future.
a. plan b. manage teams c. save energy
- 21) Microsoft Word can be edited by numerous users in different locations, if there is an available
a. keyboard b. printer c. internet connection
- 22) You can use to save the images you create and insert them into your document.
a. Microsoft Word b. Paint c. Email
- 23) You can use to send your work to your colleagues.
a. Microsoft Word b. Paint c. Email

24) One of the most important issues in achieving your research project is

- a. data b. texts & pictures c. a & b

Put (✓) or (X):

1. Dr. Diego used technology to reduce energy waste. ()
2. Thermostat is a device that communicates information back to a computer. ()
3. The electricity used in a certain town changes throughout the day. ()
4. The electricity used by air conditioners in the summer is less than in the winter. ()
5. There is just one way to produce energy. ()
6. Dr. Ponce de Leon was able to balance the power grid by moving and storing the electricity. ()
7. We can store and move electricity from one place to another. ()
8. We can use technology to solve many problems. ()
9. Egypt uses data and information management systems. ()
10. The use of technology to collect data is unimportant in future planning. ()
11. It is recommended to update software programs on your computer. ()

12. You must install updates for programs manually. ()
13. Software programs, such as Microsoft Office and Google.
()
14. "Screen freezes" is one of the common problems when
using PC. ()
15. Binary system uses the values (1&2). ()
16. Some programs can be updated automatically. ()
17. All software updates require a restart. ()
18. All online sources are safe to download programs. ()
19. Users can face various problems when using computers.
()
20. Dr. Ponce de Leon uses technology to collect data to plan
for the future. ()
21. Microsoft Word is one of Microsoft Office 365 programs.
()
22. It is not available to edit a Word document by different
users in different places. ()
23. It is not necessary to plan to your project. ()
24. One of the tools you may need for a group project is
email. ()
25. You can't attach a document to your email. ()
26. Assigning roles to the group members is crucial when
starting a project. ()

27. Identifying the personal characteristics of team members can benefit the group. ()
28. You have to discuss the tools needed to complete each section of the project after finishing the project. ()
29. Be sure to answer any questions the group members may have. ()
30. You can't insert an image into a Word document. ()

Choose from column (A) what suits it in column (B):

Column (A)

- 1) Sun and wind
- 2) Coal and oil
- 3) Sensor
- 4) Thermostat
- 5) Crucial

Column (B)

- a. Using technology to collect data in planning.
- b. Measures temperature
- c. Fossil fuels.
- d. Communicates information back to a computer.
- e. Renewable energy sources.

Complete the following sentences using the words between the brackets:

(30 second - binary system – Updates – power – Office 365)

- 1) is an example of software programs that can be downloaded.
- 2) To turn your cell phone off, press the button for
- 3) Computers use to store data more efficiently.
- 4) help programs to run more efficiently.

(Paint – roles – Email – MS Word - technology)

- 1) is one of the programs may be used in preparing the project.
- 2) Before starting a project, you have to assign to group members.
- 3) is used to send documents to project members.
- 4) To edit and save images, you can use program.
- 5) You can use to collect data to plan for the future.

Rearrange the following settings to update a software program on your PC:

- | | |
|------------------------|-----|
| 1. Windows update | () |
| 2. Settings | () |
| 3. Start button | () |
| 4. Update and Security | () |

ICT – Theme 4 (lesson 1,2,4) – answers

Choose the correct answer:

- 1) Dr. Diego Ponce de Leon holds a PhD from the University of
a. Chicago **b. California** c. New York
- 2) is one of the renewable energy sources.
a. Natural gas **b. Wind** c. Coal
- 3) Dr. Diego Ponce de Leon develops the use of technology to build data systems related to
a. renewable energy b. fossil fuels c. debris
- 4) Fossil fuels are found in nature in the form of
a. Coal b. natural gas and oil **c. a&b**
- 5) Recently,are being used instead of power generated from fossil fuels.
a. wind and solar power
b. natural gas and oil
c. a & b
- 6) Dr. Diego Ponce de Leon's work helps devices work efficiently by connecting the refrigerators and air conditioners together with and programming a computer to control them.
a. Wi-Fi **b. thermostat** c. bluetooth
- 7) Dr. Ponce de Leon used the to monitor how much energy the refrigerators and air conditioners used throughout the day.
a. sensors b. thermostat c. mobile

- 8) Thermostat is used in refrigerators to measure the
a. temperature b. energy c. humidity
- 9) Dr. Diego Ponce de Leon used to monitor the appliances.
a. sensors b. thermostat c. WI-FI
- 10) The electricity used by air conditioners in the summer is in the winter.
a. more than b. less than c. the same
- 11) In Egypt, data and information management system was built to improve the system.
a. investment b. irrigation c. industry
- 12) To solve the problem of screen freezes, you can use the buttons.
a. Alt, Tab, and Del
b. Alt, Ctrl, and Del
c. Alt, Ctrl, and Tab
- 13) If you don't use official stores, only download software from sources.
a. reliable b. unreliable c. harmful
- 14) If you downloaded a software program, you can find the program in folder.
a. installed b. favourites c. downloads

- 15) To turn your device off, press and hold down the button.
a. power b. Esc c. Enter
- 16) Computers use numbers system to store data more efficiently.
a. binary b. decimal c. octal
- 17) Computers understand signals.
a. optical b. electrical c. a & b
- 18) The binary system uses the values to express the binary numbers system.
a. 0 b. 1 c. a & b
- 19) In computer binary system, number (1) means
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- 20) Dr. Ponce de Leon uses technology to collect data to for the future.
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a. keyboard b. printer c. internet connection
- 22) You can use to save the images you create and insert them into your document.
a. Microsoft Word b. Paint c. Email
- 23) You can use to send your work to your colleagues.
a. Microsoft Word b. Paint c. Email

24) One of the most important issues in achieving your research project is

a. data

b. texts & pictures

c. a & b

Put (✓) or (X):

1. Dr. Diego used technology to reduce energy waste. (✓)
2. Thermostat is a device that communicates information back to a computer. (X)
3. The electricity used in a certain town changes throughout the day. (✓)
4. The electricity used by air conditioners in the summer is less than in the winter. (X)
5. There is just one way to produce energy. (X)
6. Dr. Ponce de Leon was able to balance the power grid by moving and storing the electricity. (✓)
7. We can store and move electricity from one place to another. (✓)
8. We can use technology to solve many problems. (✓)
9. Egypt uses data and information management systems. (✓)
10. The use of technology to collect data is unimportant in future planning. (X)
11. It is recommended to update software programs on your computer. (✓)
12. You must install updates for programs manually. (X)
13. Software programs, such as Microsoft Office and Google. (X)
14. "Screen freezes" is one of the common problems when using PC. (✓)
15. Binary system uses the values (1&2). (X)

16. Some programs can be updated automatically. (✓)
17. All software updates require a restart. (✗)
18. All online sources are safe to download programs. (✗)
19. Users can face various problems when using computers. (✓)
20. Dr. Ponce de Leon uses technology to collect data to plan for the future. (✓)
21. Microsoft Word is one of Microsoft Office 365 programs. (✓)
22. It is not available to edit a Word document by different users in different places. (✗)
23. It is not necessary to plan to your project. (✗)
24. One of the tools you may need for a group project is email. (✓)
25. You can't attach a document to your email. (✗)
26. Assigning roles to the group members is crucial when starting a project. (✓)
27. Identifying the personal characteristics of team members can benefit the group. (✓)
28. You have to discuss the tools needed to complete each section of the project after finishing the project. (✗)
29. Be sure to answer any questions the group members may have. (✓)
30. You can't insert an image into a Word document. (✗)

Choose from column (A) what suits it in column (B):

Column (A)

- | | |
|-----------------|----------|
| 1) Sun and wind | e |
| 2) Coal and oil | c |
| 3) Sensor | d |
| 4) Thermostat | b |
| 5) Crucial | a |

Column (B)

- a. Using technology to collect data in planning.
- b. Measures temperature
- c. Fossil fuels.
- d. Communicates information back to a computer.
- e. Renewable energy sources.

Complete the following sentences using the words between the brackets:

(30 second - binary system – Updates – power – Office 365)

- 1) Office 365 is an example of software programs that can be downloaded.
- 2) To turn your cell phone off, press the power button for 30 second.
- 3) Computers use binary system to store data more efficiently.
- 4) Updates help programs to run more efficiently.

(Paint – roles – Email – MS Word - technology)

- 1) **MS word** is one of the programs may be used in preparing the project.
- 2) Before starting a project, you have to assign **roles** to group members.
- 3) **Email** is used to send documents to project members.
- 4) To edit and save images, you can use **Paint** program.
- 5) You can use **technology** to collect data to plan for the future.

Rearrange the following settings to update a software program on your PC:

- | | |
|------------------------|-----|
| 1. Windows update | (4) |
| 2. Settings | (2) |
| 3. Start button | (1) |
| 4. Update and Security | (3) |



Fifth grade primary – second semester
Information and communication technology
lessons (1-4) THEME (4) Review – paper (1)
The third lesson is enriching for information only

Q1: Dr. Ponce de Leon hold a Ph.D. in

- A | **Energy and resources** | B | Civil engineering | C | Industrial chemistry

Q2: Ponce de Leon develops systems for data related to

- A | animal welfare | B | **renewable energy** | C | computer science

Q3: The world has witnessed great progress in the transition to electricity generation through renewable energy such as

- A | wind power | B | solar power | C | **Both of them**

Q4: The world has become less dependent on fossil fuels extracted from

- A | Oil | B | Natural gas | C | **Both of them**

Q5: It is possible to increase the efficiency of electrical appliances by connecting them to to control their temperature.

- A | **Thermostat** | B | Sensors | C | Bluetooth

Q6: is used to send information about appliances temperatures to the computer connected to it

- A | Thermostat | B | **Sensors** | C | Bluetooth

Q7: is used to measure the temperature in air conditioners and refrigerators, to monitor and control it.

- A | **Thermostat** | B | Sensors | C | Bluetooth

Q8: is used to monitor the amount of energy consumed by refrigerators and air conditioners throughout the day.

- A | Thermostat | B | **Sensors** | C | Bluetooth

Q9: The amount of energy used by refrigerators in the summer from the amount used in the winter.

- A | **is greater than** | B | is less than | C | is equal to

Q10: The electricity grid can be balanced by..... Thus, we will save on electricity

- A | Transmission from one place to another | B | Storing and distributing it equally | C | **Both of them**

Q11: Egypt has a data and information management system with the aim of to ensure the achievement of food security.

- A | **Increasing the agricultural land** | B | Controlling floods | C | Reducing population increase

Q12: Egypt has a data and information management system with the aim of increasing the agricultural area to ensure security

- A | Water | B | **Food** | C | cyber

Q13: The data and information management system in Egypt helps engineers make decisions to develop..... systems

- A | Education | B | Transportation | C | **Irrigation**

Q14: If you are not using the official software stores, be sure to download software from

- A | **reliable sources** | B | unreliable sources | C | free sources



Fifth grade primary – second semester
Information and communication technology
lessons (1-4) THEME (4) Review – paper (2)
The third lesson is enriching for information only

Q15: To install the software on the computer, click on the download button from the Internet. You will find the file in the folder.

- A | Pictures | B | **Downloads** | C | Documents

Q16: To download an application on your phone, you must first press the icon on your mobile phone.

- A | **Apps** | B | Settings | C | messaging

Q17: To download an application on your mobile phone, you must go to the application store, such as.....

- A | Google Maps | B | Google drive | C | **Google play stores**

Q18: You can help the program to work efficiently by.....

- A | Delete it | B | **Update it** | C | Restart it

Q19: Updates are installed..... in most programs from the internet

- A | **Automatically** | B | Manually | C | By search

Q20: Some large updates on computers may require.....

- A | Delete updates | B | Shut down computer | C | **Restart computer**

Q21: To manage updates on your computer, choose from Settings

- A | Troubleshooting | B | **Update and Security** | C | Windows Firewall

Q22: To open the task manager on the computer, press and hold the..... buttons together

- A | Ctrl+shift+Del | B | **Ctrl+Alt+Del** | C | Enter+Alt+Del

Q23: You can Use the task manager to close any program classified as in case the screen freeze.

- A | Responding | B | **not responding** | C | working regularly

Q24: If your attempts to restore your computer did not succeed, you should press for a few seconds on, then restart.

- A | **power button** | B | Mouse | C | keyboard

Q25: To solve the screen freeze problem on Android devices. Press the power button for seconds.

- A | 20 | B | **30** | C | 40

Q26: Computers use the system to store data more efficiently.

- A | **Binary** | B | Octal | C | decimal

Q27: The binary system uses the two values..... to express the numbers in it.

- A | (1,10) | B | (1,1) | C | **(1,0)**

Q28: Computers understand data (numbers) through signals.

- A | Sound | B | Light | C | **electric**

Q29: In the electrical signals used by the computer to understand the data, the number means turning on.

- A | 0 | B | **1** | C | 2

Q30: In the electrical signals used by the computer to understand the data, the number means off.

- A | **0** | B | 1 | C | 2



Fifth grade primary – second semester
Information and communication technology
lessons (1-4) THEME (4) Review – paper (3)

The third lesson is enriching for information only

Q31: Users from around the world can edit the same document if an internet connection is available via

- A | **Office 365** | B | Skype | C | WhatsApp

Q32: Users from around the world can edit the same document if the feature is activated.

- A | Online search | B | **Online editing** | C | Online publishing

Q33: Users from around the world can edit the same document through Office 365 if is available

- A | **internet connection** | B | keyboard | C | printer

Q34: Through, you can create and save images to be included in the document.

- A | Word | B | Excel | C | **Paint**

Q35: Before starting your project, you should based on the strengths and interests of each individual in the group.

- A | Defining needs | B | **Assigning roles** | C | Defining tools

Q36: can be used to send your work to others within the project working group

- A | **E-mail** | B | instant messaging | C | video chats



Fifth grade primary – second semester
Information and communication technology
lessons (1-4) THEME (4) Review – paper (4)
The third lesson is enriching for information only

Complete the following sentences with suitable words from the brackets:

(sensors – save electricity – food security – thermostat – water security – solar power)

- 1 – Many countries have Transition away from power generated by fossil fuels Instead, are being used. (solar power)
- 2 – The temperature in air conditioners can be measured by to control the temperature. (thermostat)
- 3 – We can monitor the amount of energy used by refrigerators and air conditioners by throughout the day. (sensors)
- 4 – Electricity can be stored and moved from one place to another to (save electricity)
- 5 – Egypt has a data management system to increase the agricultural land to ensure..... (food security).

Complete the following sentences with suitable words from the brackets:

(Google Play Store – Automatically – Update and Security – Restart – Update)

- 1 – After downloading the program from the Internet, open the folder to find the file to install. (downloads)
- 2 – Installing updates in Android You need to go to for the application whose updates you want to install. (Google Play Store)
- 3 – Software should be regularly to help it work more efficiently. (update)
- 4 – In most programs, updates are installed. (Automatically)
- 5 – To manage Updates in Computer Select from Settings. Then choose System Update. (Update and Security)

Complete the following sentences with suitable words from the brackets:

(Internet connection – Image – Weakness – MS Paint – Strength – Email)

- 1 – program is used to modify and save images and graphics. (ms paint)
- 2 – one of the digital tools that are used to send a document (e-mail).
- 3 – a Word document can be edited by numerous users, at different locations with..... (Internet connection)
- 4 – You can attach a document or to your e-mail message. (image)
- 5 – The roles in the project are assigned based on..... for everybody. (Strength)



Fifth grade primary – second semester
Information and communication technology
lessons (1-4) THEME (4) Review – paper (5)
The third lesson is enriching for information only

Put the word (true) in front of the correct statement and the word (false) in front of the incorrect statement in the following:

| | | |
|----|---|--------------|
| 1 | Thermostats must be <u>dispensed</u> with to increase the efficiency of electrical appliances | false |
| 2 | Using technology to collect data is crucial in planning for the future | True |
| 3 | Fossil fuels are extracted from coal, natural gas and oil | True |
| 4 | Egypt has a data management system for increasing the agricultural land and ensuring food security | True |
| 5 | The use of energy data management systems leads to <u>wastage</u> of electricity | false |
| 6 | The world has recently turned to generate electricity from solar and wind energy | True |
| 7 | Sensors can be used to monitor the amount of energy used by appliances | True |
| 8 | The amount of energy used by a village does not change throughout the day | False |
| 9 | The energy used by air conditioners in the summer is greater than in the winter | True |
| 10 | moving and storing the electricity from one place to another so that the amounts are more equal evenly leads to <u>waste</u> of electrical energy | False |
| 11 | Egypt's data system data helps engineers develop irrigation systems | True |
| 12 | Most of the programs can be downloaded through the Internet | True |
| 13 | Always make sure to download applications from official stores or trusted sites | True |
| 14 | To find the software you downloaded, open the <u>Documents</u> folder on your computer | False |
| 15 | Google Play stores is one of the most popular official app stores | True |
| 16 | To install an application on an Android device, search for it in the App Store and press the <u>Update</u> button | False |
| 17 | Software should be updated regularly to help it run more efficiently | True |
| 18 | Most software updates are installed <u>manually</u> | False |
| 19 | To check for updates on your Android device, go to System, then System update | True |
| 20 | You must follow the instructions to install updates in Android devices correctly | True |
| 21 | To solve the of the screen freeze problem in computer, press and hold <u>Ctrl+Alt+Shift</u> | False |
| 22 | When the screen freeze on mobile device, press the power button for 30 seconds, restart | True |
| 23 | Computers use the <u>octal</u> system to store data more efficiently | False |
| 24 | Binary numbers can be considered a language that computers understand | True |
| 25 | The binary system uses two values (1,0) to express the numbers in it | True |
| 26 | The computer understands binary electrical signals, so (1) means <u>off</u> and (0) means <u>on</u> | False |
| 27 | MS word allows group members to work together at the same time | True |
| 28 | Drawings can be added to a Word document | True |
| 29 | It is preferable that roles in projects be assigned <u>randomly</u> | False |
| 30 | You can use email to send your project to your teacher | True |
| 31 | Roles are assigned in the project based on the features and strengths of each individual | True |
| 32 | Paint program is used to edit and save images | True |
| 33 | setting up the online editing feature allows multiple users to edit the same document | True |
| 34 | Internet is not required to allow modification to a file through the online modification feature | False |



March exam

Fifth grade – information and communication technology

The exam has 15 marks for each question, one mark

Question 1 Put the word (true) in front of the correct statement and the word (false) in front of the wrong statement:

- | | | |
|---|---|--|
| 1 | Digital maps such as Google chrome can provide clear directions to the required places. | |
| 2 | Asynchronous communication is useful when you do not need an immediate response . | |
| 3 | Using technology to collect data is crucial in planning for the future | |
| 4 | Google Play stores is one of the most popular official app stores | |
| 5 | It is preferable that roles in projects be assigned randomly | |

Question 2 Choose the correct answer from the following:

- helps you online to search for different media such as images and video.
A | ONLINE LIBRARIES | B | ONLINE MAPS | C | ONLINE MUSEUMS
- the information under each link in a set of search results for a topic called
A | Advertisements | B | meta information | C | reviews
- One of the digital tools for synchronous communication is which is during real time between people.
A | e-mail | B | recorded videos | C | instant chat rooms
- When you send a message to a close friend, he needs time to respond, so you have to be
A | Polite | B | patient | C | Clear
- is used to send information about appliances temperatures to the computer connected to it
A | Thermostat | B | Sensors | C | Bluetooth
- Egypt has a data and information management system with the aim of to ensure the achievement of food security.
A | Increasing the agricultural land | B | Controlling floods | C | Reducing population increase
- To open the task manager on the computer, press and hold the..... buttons together
A | Ctrl+shift+Del | B | Ctrl+Alt+Del | C | Enter+Alt+Del
- In the electrical signals used by the computer to understand the data, the number means turning on.
A | 0 | B | 1 | C | 2
- Users from around the world can edit the same document if an internet connection is available via
A | Office 365 | B | Skype | C | WhatsApp
- Through, you can create and save images to be included in the document.
A | Word | B | Excel | C | Paint

Student name :

Class :

The exam includes:

Lessons (7-8) from the third theme

Lessons (1-4) from the fourth theme - there are no questions from the third lesson because it is enriching according to the official plan

إعداد جروب (كوكب بي سي - محمود ياسين)